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(54) INK-JET RECORDING PAPER

(57) Abstract:

PURPOSE: To improve ink absorbability and to enhance color developability and high speed printability, by providing a coating layer with silica-containing pigment and a binder as main constituents to the surface of base paper by a casting method.

CONSTITUTION: A coating solution is applied to the surface of base paper and subsequently finished by a casting method to provide a desired coating layer. As the casting method, for example, there is a wet casting method for adhering a wet coating layer to a heated finish surface having a mirror surface under pressure to perform gloss finish and glossiness is improved. The base paper is

generally prepared by adding mechanical pulp and semimechanical pulp to bleached chemical pulp beaten so as to be set to arbitrary freeness if necessary and further adding a paper strength enhancer thereto to form the resulting mixture into paper by a papermaking process. The coating layer is based on synthetic precipitated silica pigment based on silicon dioxide, for example, fine synthetic amorphous silica and a binder based on casein or gelatin. The aforementioned binder is pref. used in a ratio of 10W30 pts. by wt. of 100 pts. of the pigment in order to impart the coating layer reducing the falling of a paper powder and having good ink absorbability.

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